





SANY MARINE HEAVY INDUSTRY CO., LTD.

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Quality Changes the World

www.sanygroup.com

SANY REACH STACKER ACHIEVEMENT OF PROFESSIONAL QUALITY



COMPREHENSIVE PRODUCT SERIES

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5AN'

World class, No. 1 logistics equipment supplier in China

SANY Reach Stacker is mainly used in ports, wharfs and storage yards to handle, transfer and stack various container and other materials. It is safe, reliable, and energy saving embedded with several international advanced core technology such as dynamic anti-rollover protection, anti-collision of the spreaders, vertical lift of the booms, patent technology of power driven counterweight, automatic fire extinguishing technology. All the performance indexes are world leading, making our products your most reliable choice.

With products of several series like heavy, overweight hurdling, light, empty container and off-road reach stackers, SANY Reach Stacker can accommodate to the use of various industries as logistics, energy, chemical engineering, wind power and forestry, bringing you the maximum economic benefits.





SAFE AND RELIABLE

Joint design of China and Germany, excellent quality assured



3

Dynamic Anti-Rollover Protection Technology

Adopt intelligent control technology, detect equipment' s real-time working parameters and automatically adjust the operating status under dangerous conditions to prevent rollover. It can achieve safe and worry-free operation.

Anti-collision Technology of the Spreaders while Revolving

Intelligent control of the positions of spreaders and booms can effectively prevent collision among the spreader, frame and boom, avoiding accidents by faulty operation and greatly reducing labor intensity.

Automatic Fire Extinguishing Technology

The pipeline network automatic fire extinguisher with strong spray can realize fire alarm, antiflaming and fire extinction functions. The fireproof performance is steady and reliable.

Solid Tyre Suspension Technology

Provide solid tyre flexible damping system according to customers' needs to achieve safer operation and lower maintenance cost. Combine with flexible suspension technology, it significantly reduced the shocking load, raised operation comfort and prolonged component longevity.

5 Au

Automatic Braking Technology upon Reversing

Adopting technologies like laser scanning and graphic identification, the machine can precisely detect people or obstacles within the driving route and then brakes automatically to prevent accidents. It is highly intelligent with high safety.



Reliable Structure Design

Designed by China and Germany together, the equipment is assured to be highly reliable and endurable by adopting full-digit prototype design system, going through FEA, dynamics simulation analysis, as well as strict endurance and vibration tests.

7

Reliable Power System

Using world famous brand engines like VOLVO and CUMMINS which are reliable in quality and strong in power, combining the advanced power matching and control technology, the equipment is greatly optimized in dynamic performance.

Scientific and appropriate protection for the engine and gearbox will significantly prolong their longevity.



HIGH-EFFICIENCY



2

Vertical Lifting Technologies of Boom

The intelligent controller monitors the boom's parameters at real-time, and automatically adjust the position of the boom to ensure vertical lifting of the spreader, which makes stacking safer and improves work efficiency significantly.

Efficient Control Technology

The centralized joystick has inching control function. It can realize fine tuning to millimeter precision easily. All the spreaders' motions are under proportional control, providing an experience of man-machine unification. The machine also has multi-motion linkage design so that it can operate faster and more efficiently.

3

4

Comfortable Operation Environment

The operator-oriented design includes a broad view of work condition. The controlling devices are placed in reasonable position to ease fatigue of operators.

Bulk Container Handling Technology

The Bulk Reach Stacker broke through the bottleneck of bulk container handling and simplified the handling process, dramatically improved work efficiency and environmental protection.





ENERGY-SAVING

Hydraulic Load Sensing System

Automatically adjust the pump displacement according to the load, realizing high precision flow control. The effect of energy saving and consumption reduction are remarkable.

2 Dynamic Power Matching Control System Automatically recognize dynamic power according to load

change and adjust engine speed accordingly. The output power automatically accommodate to load and work conditions, greatly reducing energy consumption.

Design for Lighter Optimize the structure to make it lighter and stronger.





Concernation of the second

GE & CN TOP TECHNOLOGIES

SANY SRSC45H8 Reach Stacker incorporated the cutting-edge technology from China and Germany, owing 8 core advantages of highly energy-saving, high efficiency, high security, high reliability, highly comfortable, H-shaped brand new spreader, high maintainability and high return. The performances have been improved in all aspects, starting a new chapter of Reach Stacker design.

Highly energy-saving: world's initiative energy reclaiming system, comprehensively save energy up to 25%.

High efficiency: adopt multi-motion linkage design, spreader motion ratio control technology and micro-move control technology; the equipment can be easily controlled.

High security: dynamic anti-rollover protection system, automatic fire extinguishing system, solid tyre and hydro-pneumatic suspension system, patent technology of mobile counterweight, all meeting European safety standards.

High reliability: water identification technology of the connectors, CAN bus communication technology, digital platform design technology; German design, precise and reliable.

Highly comfortable: concentrated joystick, 360 degree view, full-range headlamp, steering dynamic response, new-style pedal design, all providing a comfortable experience.

H-type Spreader: single main beam patented technology; self-weight of spreader is less than 7t; the components passed through millions of times equivalent fatigue test; performance steady and reliable.

High maintainability: spacious maintenance room, preventative maintenance system, over 200 malfunction diagnosis programs.

High return: saving energy by 25%, saving \$12,888 per year if 90,000 containers are stacked per year.

10

42



ATTACHMENT OPTIONS

45t Container Spreader

SANY 45T container spreader is used in reach stacker to stack, load or unload ISO standard 20', 40' and 45' containers. Based on market needs, Sany Port Machinery has developed numerous container spreaders of reasonable structure with good design, strong safety protection function and cost effective, sufficiently meeting different requirements of the customers.

SDJ450H: New model of spreader, light weight design, more energy saving and lower fuel consumption

Rated capacity: 45t Application: ISO 20'/40'/45' Containers



SDJ450F: SANY classic spreader Rated capacity: 45t Application: ISO 20'/40'/45' Containers



Empty Container Spreader

SANY SDJE100 spreader is applicable to the transfer and stacking of ISO standard 20', 40' and 45' container or refrigerator. It is the first of its kind in China. Flexible, convenient and economic, it will be your best choice.

SDJE100: Empty container stacking, flexible and convenient Rated capacity: 10t Application: ISO 20'/40'/45' Containers



Combined Spreader

SANY SDJE450P spreader is applicable to the transfer and stacking of ISO standard 20', 40' and 45' container or the transfer of EN284 non-stacking container. It is of multiple uses, meeting the European and American intermodal working mode requirement.

SDJ450P: Workable at multi-conditions, quick response to container-aligning operation

Rated capacity: 45t Application: ISO 20'/30'/35'/40'/45' Containers EN284 non-stacking containers



Log Spreader

SANY SWG310 spreader is applicable to transfer, load and unload log or other special materials. This product has perfectly solved the difficulty of transporting and loading specific materials such as log, bringing high profit for customers

SWG310: Highly efficient log grabs Rated capacity: 31t Application: wood



Tilt Spreader

SANY SDJS320 spreader is designed for Reach Stacker to transport, load and unload bulk materials. This product has perfectly solved the difficulty of transporting and loading bulk materials. It fills in the domestic blank, breaks through the bottleneck of loading bulk materials, and highly improves the efficiency and environment-protection performance.

SDJS320: A born bulk cargo handling expert

Rated capacity: 32t Tilt angle: 0~50° Application: ISO 20' Containers



SANY tube spreader applies to transfer and hoist not only tube and pipe like material, but also container or bulk cargo.

STP450

All for customers, all from innovation

Tube Spreader

Rated capacity: 45t Application: Pipeline, ISO 20'/40'Containers



STH350

Rated capacity: 35t Application: Large tube

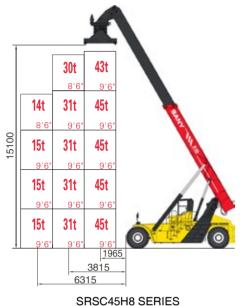


SDJ400G

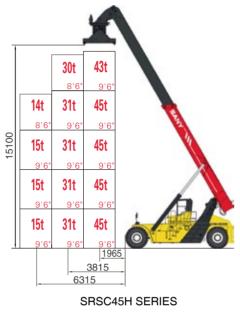
Rated capacity: 40t Application: Large tube, bulk cargo



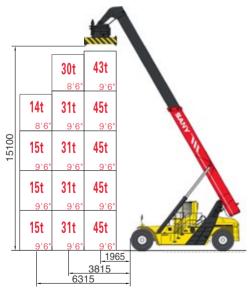
LOAD CAPACITY DIAGRAM



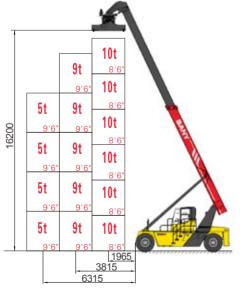
CONTAINER REACH STACKER



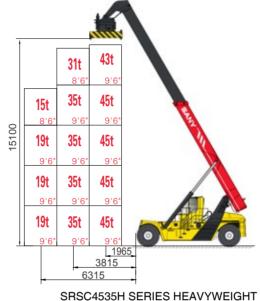
CONTAINER REACH STACKER



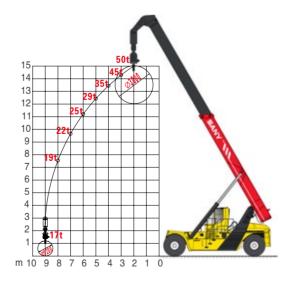
SRSC45GC SERIES CONTAINER REACH STACKER



SRSC1009-6E EMPTY CONTAINER REACH STACKER



CONTAINER REACH STACKER

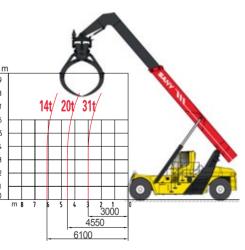


SRST50H1-H TUBE REACH STACKER 8

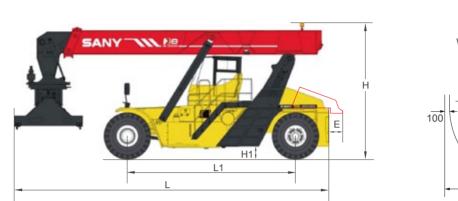
3600



SRSC4545H SERIES OVERWEIGHT CONTAINER REACH STACKER

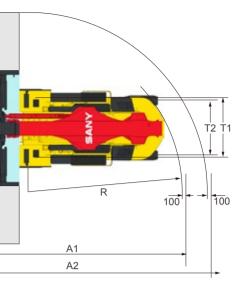


SRSW31H1 LOG REACH STACKER



TECHNICAL PARAMETER

Parameter	Unit	SRSC45H8 Series	SRSC45H Series	SRSC45GC	SRSC4535GC	SRSC1009-6E	SRSC4535H1	SRSC4545H1	SRST50H1-H	SRSW31H1
Max. Hoisting speed (Non-load/Load)	mm/s	420/250	420/250	420/250	420/250	450/400	420/250	400/220	420/250	420/250
Max. Descending speed (Non-load/Load)	mm/s	360/300	360/300	360/300	360/300	400/400	360/300	360/280	360/300	360/300
Max. Travel speed (Non-load/Load)	km/h	25/21	25/21	25/21	25/18	28/25	25/18	20/15	25/21	25/21
Grade-ability (Non-load/Load)	%	39/32	39/32	39/32	38/24	33/27	38/24	26/17	39/32	39/32
Working pressure of hydraulic system	bar	260	260	260	260	220	260	260	260	260
Overall weight	t	73	72	74	76.5	39	76.5	96.5	65.5	74.5
Max. Load	t	45	45	45	45	10	45	45	50	31
Layer of stack	-	5 (9'6"/8'6")	5 (9'6"/8'6")	5 (9'6"/8'6")	5 (9'6"/8'6")	6 (8'6")	5 (9'6"/8'6")	5 (8'6")	-	-
Max. Hoisting height	mm	15100	15100	15100	15100	16200	15100	13600	15100	9500
Boom Tilt angle	deg	0~60	0~60	0~60	0~58	0~64.5	0~58	0~50	0060	0~55
Overall length L	mm	11340	11340	11258	11960	11000	11845	13270	10580	12600
Wheel base L1	mm	6000	6000	6000	6500	5000	6500	8000	6000	6000
Overall height H	mm	4770	4770	4770	4870	4000	4870	5230	4770	6660
Min. ground clearance H1	mm	350	350	350	350	250	350	420	350	100
Overall width W	mm	6053-12185	6053-12185	6053-12185	6053-12185	6053-12185	6053-12185	6053-12185	4188	4188
Weight motion distance E	mm	500	-	500	500	-	-	-	-	-
Front track width T1	mm	3033	3033	3033	3033	3280	3033	3060	3033	3033
Rear track width T2	mm	2790	2790	2790	2790	2450	2790	3120	2790	2790
Min. turning radius R	mm	8000	8000	8000	8800	6800	8800	10600	8000	8000
Aisle width with 20' container A1	mm	11300	11300	11300	12000	10000	12000	14500	11300	11300
Aisle width with 40' container A2	mm	13600	13600	13600	13600	13600	13600	15200	13600	13600
Series of products	-	New H Series	New H Series	G Series	G Series	Empty Container Reach Stacker	Heavyweight Container Reach Stacker	Overweight Container Reach Stacker	Tube Reach Stacker	Wood Reach Stacker



CONFIGURATION PARAMETER

	Parameter		SRSC45H8 Series		SRSC4	5H Series	SRSC45GC	SRSC4535GC	SRSC1009-6E	
	Туре	-	VOLVO TAD1151	VOLVO TAD1151	VOLVO TAD1151 CUMMINS QSM11 VOLVO TAD1171VE CUMMINS QSL9		VOLVO TAD1171VE	VOLVO TAD1171VE	CUMMINS QSB 6.7	
Eng	Rated power	kW/rpm	265/2100	265/2100	250/2100	265/2100	261/2100	265/2100	265/2100	164/2300
gine	Max. torque	Nm/rpm	1780/1260	1780/1260	1674/1400	1785/1260	1628/1500	1785/1260	1785/1260	949/1400
	Exhaust standard	-	III Stage	III Stage	III Stage	IV Stage	IV Stage	IV Stage	IV Stage	III Stage
Gearbo	Gearbox		DANA 15.5HR36000	DANA 15.5HR36000		•	DANA 15.5HR36000	DANA 15.5HR36000	CLARK 13.7HR32334	
Drive A	Drive Axle		Kessler D102 PL341	Kessler D102 PL341			Kessler D102 PL341	Kessler D102 PL341	Kessler D81 PL488	
S	Туре	-	SDJ450H	SDJ450F			SDJ450F	SDJ450F	SDJE100	
	Side shift range	mm	±800	±800			±800	±800	±800	
rea	Rotary angle	deg	+105/-195	+105/-195			+105/-195	+105/-195	+105/-195	
der	Self-weight	t	7.15	7.8			7.8	7.8	4.7	
	Application	-	ISO 20'/40'/45' Containers	ISO 20'/40'/45' Container	rs		ISO 20'/40'/45' Containers	ISO 20'/40'/45' Containers	ISO 20'/40'/45' Containers	
Tyre		-	18.00-25 40PR (Solid tyre for option)	18.00-25 40PR				18.00-25 40PR	18.00-33 36PR	14.00-24 28PR

	Parameter	Unit	SRSC4535H1	SRSC4545H1	SRST50H1-H	SRSW31H1	No.	Function	H8 Series	H Series
	Туре	-	VOLVO TAD1151	VOLVO TAD1151	VOLVO TAD1151	VOLVO TAD1151	1	Energy recycling system	•	0
Eng	Rated power	kW/rpm	265/2100	265/2100	265/2100	265/2100	2	Dynamic anti-rollover protection system	•	•
gine	Max. torque	Nm/rpm	1780/1260	1780/1260	1780/1260	1780/1260	3	Automatic fire extinguishing system	•	Conventional
	Exhaust standard	-	III Stage	III Stage	III Stage	III Stage	4	Connector water identifying system	•	•
Gearbo	x	-	DANA 15.5HR36000	DANA 15.5HR36000	DANA 15.5HR36000	DANA 15.5HR36000	5	Rear image integration system	•	0
Drive A	xle	-	KESSLER D102 PL341	KESSLER D106 PL341	KESSLER D102 PL341	KESSLER D102 PL341	6	Maintenance reminding system	•	•
	Туре	-	SDJ450F	SDJ450F	SDJ400G	SWG310	7	Fault diagnosis system	•	•
မှ	Side shift range	mm	±800	±800	-	±500	8	Oil accounting function	•	•
rea	Rotary angle	deg	+105/-195	+105/-195	360	+20 /-20	9	Broadened lighting strength and angle	•	0
der	Self-weight	t	7.8	7.8	1.2	8.1	10	3D rocker switch	•	0
	Application	-	ISO 20'/40'/45' Containers	ISO 20'/40'/45' Containers	Tube	Wood	11	Movable balance weight system	•	0
Tyre		-	18.00-33 36PR	21.00-35 36PR	18.00-25 40PR	18.00-25 40PR	12	Mobile cabin structure	•	•
				•			13	Boom vertical lift technology	•	•
										• Standard Optional

ADD-ON OPTIONS

FUNCTION	BRAND	CODE	NOTE
Heat preservation device for extremely cold district	SANY	13816251	It is mainly used in such extremely cold district as Russia. It is recommended for district where the temperature is below -15° C like North America, Russia and Europe. It is a must for district where the temperature is below -30° C.
Heating device for normal cold district	SANY	13816342	It is mainly used in the cold district in China. It is recommended for district where the temperature is below -5 °C. It is a must for district where the temperature is below -15 °C.
Cab assistant seat	SANY	12774971	Cab assistant seat
Spreader quick change function system	SANY	12774238	Use an oil cylinder pushing pin shaft to quickly unload spreader from the boom.
Spreader guiding function	SANY	11138129	Added two guide plates, easier for container-aligning operation.
Twist lock counter	SANY	11446031	Twist lock counter of the spreader
Engine hour meter	SANY	11446498	Hour meter for the engine's working hours
Amplifying alarm system	SANY	11447670	Including the amplifier and the alarm
Reach stacker LED lamp	SANY	13526507	Including: headlamp, rear lamp, boom work light, steering lamp, alarm lamp, etc.
Spreader tri-color indication light in cab	SANY	12308787	The tri-color indication light in the cab shows the conditions of the spreader: open, closed, positioning status.
Rear counterweight alarm lamp	SANY	11447452	One alarm lamp for the rear counterweight
Cab reading lamp	SANY	11446638	Brand fluorescent lamp, installed on the top of the cab.
Outdoor cab top lamp intensifier	SANY	13206545	Four xenon lamps on the cab top to increase the lighting level ahead.
Spreader front lock lamp intensifier	SANY	12304893	Used in SANY self-made spreader. Add two lamps in the outside sides to enhance lighting.

12V power supplySANY11446544cabinet in24V power supplySANY11447306Provide 2 cabinet in3m range reversing radar systemSANY11446721Visible rev5m range reversing radar systemSANY12764589Visible rev5m range reversing integrated systemSANY13206541On revers cab, not inAuxiliary rear braking systemSANY13714802It is used travellingVideo storage functionSANY13519577Used in th store charVideo monitoring system (2 cameras)SANY13519573Camera sVideo monitoring system (4 cameras)SANY13519578Shock-proPrecise weighting, systemSANY13206542Used in S and proteRadioSANY13206553IncludingAutomatic engine turn off functionSANY13206551Power sw switch is to aud proteMobile counterweight systemSANY12395059Patent mo capacity)Automatic fireSANY13132018SANY automatic		FUNCTION	BRAND	CODE	
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			SANY	13132018	SANY autor fire detectin

NOTE

- 2V power socket (on the top of the electric control the cab)
- 4V power socket (on the top of the electric control the cab)
- rersing radar with 3m range sensor
- versing radar with 3m range sensor
- e gear, reversing image is shown on the screen in the cluding the reversing radar.
- to examine precisely the person and obstacle within range and brake automatically .
- e camera system to enhance storage function; can nel 1 to 4 video signal.
- ystem (9" screen + 2 cameras)
- stem (9" screen + 4 cameras)

oof camera

- ANY self-manufactured spreader, weighting the lock ct unbalance condition.
- radio, speaker and antenna.
- tch adopted associated contactor; when the main urned off, so is the engine.
- ether with the supporting automatic fire extinguisher: tically cut off the power when fire is detected. 2. ally stop the engine once on fire.
- bile counterweight system (significantly improve load

omatic fire extinguishing system (has the function of ing and automatic fire extinguishing)

CONSTRUCTION CASES









2014, Dammam, Saudi Arabia





2010, Port of Luanda, Angola



SERVICE



Quality Changes the World Service Creates value



After-sales Service Hotline: Consultation/Complaints Hotline:







4008 87 8318 4008 87 9318

Service Concept All for customers, creating value for customers.

Service Strategy Build unparalleled service; realize "First Brand of Global Service" of Port Machinery.

Service Commitment

Contact the customer within 15 minutes after receiving service messages and immediately go to the site or call

the customer to explain handling measures.

2 Time from receiving the service message to arrival at the trouble site: less than 2 hours to the main service areas.

3 24 hours stand-by.

4 Solve general failure and provide common parts within 24 hours.

Service Advantages

SANY has offices in over 200 countries and regions, with 30 agents in China, about 50 repair factories and 6S stores, over 3000 elite service engineers, 1000 offices and parts warehouse accommodating 100,000 kinds of parts worth more than RMB 600 million. We also have highly efficient logistics system by air, sea and land, which can transport genuine parts at any time.

Industry leading Enterprise Control Center (ECC): running for more than ten years, the ECC, as the industry initiative, is worth over RMB 30 million. It can realize real-time supervision and remote precision troubleshooting. With information promoting industrialization, it innovatively created SANY's service system of "Unity of man and heaven, synergy among 1st, 2nd and 3rd levels".

GCP, GPS and CSM system: customers can learn the working conditions & key work parameters through SANY's global portal and realize remote supervision. The system also supports parts and service search, providing convenient all-round equipment supervision.



